

APRIL/MAY 2024

**CMB31/FMB31 — IMMUNOLOGY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.



1. What is the role of Edward Jenner in the history of immunization?
2. Define Active immunity.
3. Expand MALT
4. What is the primary function of neutrophils in the immune system?
5. Define the term Epitope
6. Define Haptens.
7. Name two main classes of MHC proteins and outline their roles in immune responses.
8. List two properties of the complement system that contribute to its role in immune defense.



9. Define blood transfusion
10. Name any two types of blood cell with its function.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Summarize the mechanism cell mediated immunity.

Or

- (b) Discuss about history of immunology.

12. (a) Distinguish between the T cell and B cell.

Or

- (b) Discuss about the B cell receptors and its function.

13. (a) Describe the immunoglobulin structure with neat sketch.

Or

- (b) Enlist the antigen types and properties.

14. (a) Illustrate the structure and functions of MHC.

Or

- (b) Explain about the structure and functions of complement system.

15. (a) Explain type IV on Hypersensitivity.

Or

- (b) Discuss the ABO blood grouping.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Classify the types of immunity.

17. Elaborate on the structure of Thymus.

18. Explain the cells of immune system.

19. Discuss about the classical pathway of complement system.

20. Discuss in detail about the perinatal screening blood test.

